

Background of the Invention

This invention relates to an energy and power interchange system and method for interchanging power in a wide area extending over a plurality of countries, and more particularly to an energy and power interchange system for interchanging and its method which take into account the time difference and the regional difference.

With respect to the power demand and supply, along with the economic development of respective regions, the absolute value of the power demand is increasing and the peak load is also increasing, while the load factor is lowering year by year. To cope with this phenomenon, electric utilities are requested to build power plants having power source capacity which can make up for this peak load. Recently, the regions which cannot respond to the rapid power demand adopt measures to supply electric power to the regional load by means of distributed power sources such as IPP (abbreviation of independent power producers) which can be developed in a short period.

To meet the request to increase the facilities of electric power systems, the construction of power plants, transmission lines and substations which can transmit electric power is increasing corresponding to the increasing load. In the vicinity of urban cities, however, it is difficult to obtain a site for nuclear power, and hydraulic power sources are remote from the place of demand in general. On the other hand, recently, in terms of environmental problems and the like, it is getting